# SECTION III – A QUALITY CRITERIA FOR RESOURCE MANAGEMENT SYSTEMS

### **Introduction**

This section provides information that is used when developing a **Resource Management System** (RMS) to treat or prevent problems associated with soil, water, air, plant, and animal resources (SWAPA). An RMS is a combination of conservation practices that when applied will meet or exceed minimum **Quality Criteria** for all identified resource concerns.

During the conservation planning process, the five natural resources and their associated social, economic, and cultural considerations are assessed to identify concerns affecting the use, management, and sustainability of each SWAPA resource. (Refer to the NRCS National Planning Procedures Handbook, Parts 600.23 and 600.40, for additional guidance and tools to use in the inventory process.) Quality Criteria establish the minimum level of treatment needed in an RMS to adequately treat the identified natural resource concerns. Resource sustainability, protection, and conservation are achieved when the Quality Criteria for SWAPA are met.

An RMS must be developed in accordance with all applicable federal, state, and local regulations and program requirements, including appropriate

consideration of ecological, economic, and social factors. An RMS is considered fully applied when all of the conservation practices that make up the system have been implemented according to the applicable Conservation Practice Standards in Section IV of the FOTG.

The tables in Section III-A establish Quality Criteria for treatment of concerns affecting the following natural resources:

Soil

Water

<u>Air</u>

**Plants** 

Animals

The tables include lists of conservation practices that are often used to treat the identified concerns or problems, and also contain recommendations for tools that can be used to assess current conditions and effects of practices.

## **Quality Criteria for Resource Management Systems**

SOIL			
RESOURCE CONSIDERATION: EROSION			
Description of Concerns and Problems	Quality Criteria for Treatment	Frequently Used Practices	Assessment Tools
Sheet and Rill Erosion – Soil particles are removed from the soil surface by water flowing uniformly across the land. Erosion is adversely affecting the long-term sustainability of the soil resource.	Cropland – Soil loss does not exceed the sustainable soil loss tolerance amount ("T") for the rotation of the Management Unit.  Pasture/other land – Soil loss is less than 1 ton per acre per year.	Conservation Cover 327; Conservation Crop Rotation 328; Contour Farming 330; Stripcropping, Contour 585; Cover Crop 340; Critical Area Planting 342; Residue Mgmt 329A, 329B, 329C, and 344.	FOTG – Section I: Revised Universal Soil Loss Equation (RUSLE).
Wind Erosion – Fine soil particles are selectively removed from the soil surface and redistributed by wind. Erosion is adversely affecting the long-term sustainability of the soil resource, or causing damage to crops, other resources, or property.	Soil loss does not exceed the sustainable soil loss tolerance amount ("T") for the soil mapping unit, or the crop tolerance level, whichever is more restrictive. No visual or measurable damage to property, crops, land or water.	Conservation Cover 327; Cover Crop 340; Critical Area Planting 342; Residue Mgmt 329A, 329B, 329C, and 344; Windbreak/Shelterbelt Establishment 380.	Visual evidence of blowing soil, deposition, or damage due to wind-borne particles.
Ephemeral Gully – Concentrated flow of runoff water is causing re-occurring gullies on cropland, adversely affecting the long-term sustainability of the soil resource. These gullies are usually obscured by tillage operations.	Affected areas are stabilized and ephemeral gully erosion is controlled. No recent formation of rills.	Conservation Cover 327; Critical Area Planting 342; Diversion 362; Residue Mgmt 329A, 329B, 329C, and 344.	Visual evidence of rills, ephemeral gullies, and deposition.
Classic Gully – Concentrated flow of runoff water is producing eroded channels that are too deep to be obscured by normal farming operations. These gullies are interfering with agricultural and other land uses, and may enlarge by head-cutting and lateral widening.	Head cutting is stopped. Channel bottom and side slopes are stabilized.	Diversion 362; Grade Stabilization Structure 410; Grassed Waterway 412; Lined Waterway or Outlet 468; Subsurface Drain 606; Water and Sediment Control Basin 638.	Visual evidence of active head cutting, sloughing of side-slopes, or changes in cross section and/or gully length. Historical photography and client records may also be helpful.

SOIL			
RESOURCE CONSIDERATION: EROSION (continued)			
Description of Concerns and Problems	Quality Criteria for Treatment	Frequently Used Practices	Assessment Tools
Soil Mass Movement – Unstable soil on sloping land is resulting in a large volume of soil movement. Soil slippage, landslides or slope failure is causing physical damage to vegetation, limiting land use, or creating a safety hazard.	Soil mass movement is prevented or reduced to a rate that no visual or measurable damage to property, crops, land or water is apparent.	Critical Area Planting 342; Diversion 362; Grade Stabilization Structure 410; Grassed Waterway 412; Lined Waterway or Outlet 468; Subsurface Drain 606.	Visual evidence of massive soil movement. Historical photography and client records may also be helpful.
Soil Deposition – Eroded soil is moved and redeposited at another location by water or wind, causing physical damage to vegetation, limiting land use, or creating a safety hazard.	Deposition is prevented or reduced to a rate that no visual or measurable damage to property, crops, land or water is apparent.	Conservation Cover 327; Critical Area Planting 342; Grade Stabilization Structure 410; Water and Sediment Control Basin 638.	Visual evidence of soil deposition.
Streambanks – Sloughing of streambanks is caused by unstable soils, flow obstructions, unstable channel bottoms, livestock, or equipment use. Bank erosion is impairing adjacent land uses, riparian habitat, or water quality.	Streambanks are stabilized and not subject to accelerated erosion. (The actions of the decision maker do not contribute to bank sloughing, and are controlled to the extent technically and economically feasible.) Erosion is reduced to a rate that will not cause interference with the intended uses of land or water.	Critical Area Planting 342; Fence 382; Streambank and Shoreline Protection 580; Use Exclusion 472.	Visual evidence of unstable banks. "Stream Visual Assessment Protocol" (NRCS, 1999).
Beach or Wave Induced – Soil is eroded by wind and wave action, causing physical damage to vegetation, limiting land use, or creating a safety hazard. Roads, buildings, and other structures may be damaged.	Erosion is reduced to a rate that will not cause interference with the intended land use.	Critical Area Planting 342; Streambank and Shoreline Protection 580; Windbreak/Shelterbelt Establishment 380.	Visual evidence of blowing soil, deposition, or damage due to wind and wave action.

SOIL			
RESOURCE CONSIDERATION: EROSION (continued)			
Description of Concerns and Problems	Quality Criteria for Treatment	Frequently Used Practices	Assessment Tools
<b>Construction Sites</b> – Erosion is not controlled, resulting in excessive movement of soil off-site.	Erosion on construction sites is controlled to prevent off-site sedimentation in accordance with state and local laws.	Critical Area Planting 342; Diversion 362; Water and Sediment Control Basin 638.	Visual evidence of off-site soil movement and deposition.
Roadbanks and Scoured Areas – Sloughing of banks is caused by unstable soils, flow obstructions, or inappropriate use of equipment. Erosion is impairing the use or maintenance of an area.	Roadbank and scour erosion is reduced to a rate that will not cause interference with the intended land use or contribute to off-site damages.	Critical Area Planting 342; Diversion 362; Fence 382; Water and Sediment Control Basin 638.	Visual evidence of rills, gullies, and deposition.

#### SOIL RESOURCE CONSIDERATION: CONDITION Frequently Used Practices Description of Concerns and Problems **Ouality Criteria for Treatment** Assessment Tools **Soil Tilth** – Soil tilth is not adequate to The actions of the decision-maker Conservation Crop Rotation "Maryland Soil Quality support the desired level of plant growth. improve the physical condition of the soil, 328; Residue Mgmt 329A, Assessment Book" (NRCS, and eliminate or reduce the identified tilth (Soil tilth is defined as a physical soil 329B, 329C, and 344; Contour December, 1997). condition based on suitable combinations of problem to a level that does not impair Farming 330; Striperopping, (http://www.statlab.iastate.edu mineral, air, water, and organic matter, plant growth. Contour 585; Subsurface /survey/SQI/pdf/MDd.pdf) resulting in a proper medium in which Drain 606. Soil Quality Test Kit Guide. microbial activity and chemical reactions can (http://www.statlab.iastate.edu occur.) /survey/SQI/kit2.html) **Soil Compaction** – Excessive compression of Compaction is reduced by limiting traffic Conservation Crop Rotation NRCS Soil Conditioning soil particles and aggregates by equipment, on agricultural fields and other areas, 328; Residue Mgmt 329A, Index. livestock, or natural consolidations is especially when wet. There are no active 329B, 329C, and 344; Contour (ftp://ftp.nccs.nrcs.usda.gov/ adversely affecting plant-soil-moisture-air pans (compacted soil layers) that reduce Farming 330; Fence 382; pub/agronomy/SCIfiles/latest water infiltration or restrict rooting depth. Stripcropping, Contour 585; relationships. revisions/) Subsurface Drain 606 Soil tests conducted by the **Soil Contamination** – Excess accumulation Soil contaminants are absent, or are Nutrient Management 590; of animal wastes, organic by-products, present at levels that do not adversely Pest Management 595; Waste University of Maryland Soil chemical content, salinity, selenium, boron or affect other resources. Application of all Testing Laboratory, or other Utilization 633 heavy metals are restricting the desired use of organics and chemicals is in compliance testing laboratory whose

with all federal, state, and local laws.

Plant production is not limited by

excessive soil contaminants.

the soil Contaminants include desirable and

undesirable chemical elements either in

organic or inorganic forms.

techniques are consistent with

the University of Maryland.

#### WATER RESOURCE CONSIDERATION: QUANTITY Description of Concerns and Problems Quality Criteria for Treatment Frequently Used Practices Assessment Tools Water is controlled to the extent that Excess Surface Water – Water accumulates Subsurface Drain 606; Visual evidence of ponding, on the surface of the land due to ponding or there is no observable damage to land, Structure for Water Control flooding, or springs/seeps. Historical photography and flooding, or subsurface water from springs or crops, or structures, and use of an area is 587; Surface Drainage, Field seeps flows across the surface of the land. not impaired. Control and management client records may also be Ditch 607; Surface Drainage, Excess water adversely affects the growth of of excess surface water is in accordance Main or Lateral 608. helpful. desired plants, causes damage to land or with all applicable federal, state, and Hydrologic assessment for structures, or impairs the use of an area. local regulations. the appropriate storm frequency (e.g, the 10-year, 24-hour storm event). Soil survey data. Excess Subsurface Water - Subsurface Subsurface water is reduced to a level Visual evidence of saturated Subsurface Drain 606: soil conditions Historical water accumulates in the soil profile to an that does not restrict the desired land use Surface Drainage, Field Ditch extent that plant growth or use of an area is Control and management of excess 607; and Surface Drainage, photography and client adversely affected. subsurface water is in accordance with Main or Lateral 608 records may also be helpful. all applicable federal, state, and local On-site investigation of the regulations. soil profile to determine seasonal water table levels. Soil survey data for seasonal high water tables. **Insufficient Water Supply** – Lack of Additional water is supplied to meet the Spring Development 574; Client records and verbal sufficient water is limiting agricultural identified needs by use of wells, ponds, Structure for Water Control information production, fish habitat, or human use of an water control structures, irrigation 587; Pond 378; Water Well Local climate data and systems, or other applicable measures. 642; Watering Facility 614. area. rainfall records Water is supplied in accordance with all applicable federal, state, and local regulations.

WATER			
RESOURCE CONSIDERATION: QUALITY			
Description of Concerns and Problems	Quality Criteria for Treatment	Frequently Used Practices	Assessment Tools
Sediment – Excessive levels of sediment are degrading uses of surface water for human consumption, irrigation, livestock watering, fish and wildlife habitat, or other purposes.	Sediment delivery to surface water is reduced to levels that do not adversely affect water use. Water meets applicable federal, state, and local standards for the intended use.	Conservation Cover 327; Critical Area Planting 342; Filter Strip 393; Riparian Forest Buffer 391; Streambank and Shoreline Protection 580.	SCS-TP-161 – "Water Quality Indicators Guide: Surface Waters" (SCS, 1991).  "Stream Visual Assessment Protocol" (NRCS, 1999).  Local, state, or federal water quality studies.  Well testing.  Soil testing (PSNT, Indices and Stalk Nitrate Test, or other tissue tests for other crops to monitor available nutrients).  Nitrate Leaching Index.  Phosphorus Leaching Index.
Nutrients and Organics – Surface and groundwater pollution problems are occurring due to the application of natural, manufactured, animal or other sources of nutrients. Excessive levels of nitrogen, phosphorus, or total organic carbon are impairing water use.	Application of all added nutrients and organic matter is in balance with plant requirements, considering all nutrient sources, yield goals, climatic factors, and methods of application. Nutrients and animal wastes are applied at rates, forms, and times so that there is no significant runoff beyond field boundaries.  Applicable federal, state, and local regulations are followed. Water meets applicable federal, state, or local standards for the intended use.  Risk assessment (using an appropriate assessment method) results in an acceptable rating, or minimum standards for Nutrient Management 590 are met.	Composting Facility 317; Filter Strip 393; Nutrient Management 590; Riparian Forest Buffer 391; Waste Storage Facility 313; Waste Treatment Lagoon 359; Waste Utilization 633; Wastewater Treatment Strip 635.	
Pathogens – Excessive levels of pathogens such as bacteria, viruses, protozoa, or fungi are found in surface or groundwater, and are impairing water use. Excessive levels of pathogens may result from improper treatment and application of animal wastes and sewage sludge.	Pathogens are reduced to levels that do not adversely affect the use of ground or surface water. Sewage sludge and animal wastes are properly treated and applied. Water meets applicable federal, state, and local standards for the intended use.	Composting Facility 317; Nutrient Management 590; Waste Storage Facility 313; Waste Treatment Lagoon 359; Waste Utilization 633; Wastewater Treatment Strip 635.	

WATER			
RESOURCE CONSIDERATION: QUALITY (continued)			
Description of Concerns and Problems	Quality Criteria for Treatment	Frequently Used Practices	Assessment Tools
Heavy Metals – Excessive levels of metals such as chromium, iron, lead, zinc, copper and cobalt are found in surface or groundwater, and are impairing water use. Heavy metals can occur in industrial effluents, sewage sludge, or other municipal wastes.	Heavy metals are reduced to levels that do not adversely affect the use of ground or surface water. Effluents, sludge, and other wastes are properly treated and applied. Water meets applicable federal, state, and local standards for the intended use.	Nutrient Management 590; Waste Utilization 633.	Local, state, or federal water quality studies. Well testing. Soil testing.
Pesticides – Excessive levels of pesticides are degrading uses of surface and groundwater for human consumption, livestock watering, irrigation, or fish and wildlife habitat. Pesticides include chemicals that are used to manage weeds, insects, and diseases.	Pesticides are applied in accordance with all label directions. The intended uses of surface and groundwater are not limited. Pertinent federal, state, and local regulations are followed so that water quality standards are not violated.  Risk assessment (using an appropriate assessment method) results in an acceptable rating, or the minimum standards for Pest Management 595 are met.	Conservation Crop Rotation 328; Pest Management 595.	Local, state, or federal water quality studies. Well testing. WIN-PST.
Temperature – The temperature of surface waters is adversely affected by human activities, and does not support intended uses. High temperatures may result from removal of streambank vegetation (especially trees) that provide shade, and from discharges of warm water from industrial, municipal, or agricultural sources.	Water temperature is suitable for the intended uses, and meets or exceeds standards established by federal, state and local laws. Refer to the Code of Maryland Regulations (COMAR 26.08.02) for temperature standards by stream use classification.	Tree/Shrub Planting 612; Riparian Forest Buffer 391; Streamabank and Shoreline Protection 580.	On-site temperature monitoring.  "Stream Visual Assessment Protocol" (NRCS, 1999) and other rapid assessment protocols.  Local, state, or federal water quality studies.

WATER			
RESOURCE CONSIDERATION: QUALITY (continued)			
Description of Concerns and Problems	Quality Criteria for Treatment	Frequently Used Practices	Assessment Tools
Aquatic Habitat Suitability – The ability of surface waters to support aquatic life is limited by poor riparian and in-stream habitat, high temperatures or turbidity, or reduced floodplain functions.	Conditions that limit aquatic habitat are improved to the extent that plants and animals of concern can grow, reproduce and perpetuate at sustainable levels.	Conservation Cover 327; Filter Strip 393; Tree/Shrub Planting 612; Riparian Forest Buffer 391; Streambank and Shoreline Protection 580.	"Stream Visual Assessment Protocol" (NRCS, 1999) and other rapid assessment protocols. Local, state, or federal aquatic habitat studies.

AIR			
RESOURCE CONSIDERATION: QUALITY			
Description of Concerns and Problems	Quality Criteria for Treatment	Frequently Used Practices	Assessment Tools
Airborne Sediment and Other Particulates – Particulates are impairing visibility, causing equipment or structural problems, or health problems.	Particulate movement is controlled so as not to impair visibility, damage equipment or structures, or cause human or animal health problems. Activities are in compliance with applicable federal, state, and local requirements.	Conservation Cover 327; Critical Area Planting 342; Windbreak/Shelterbelt Establishment 380.	Visual evidence of airborne sediment or smoke. Local air quality indexes. Local monitoring data for particulate matter (Clean Air Act monitoring).
Airborne Chemical Drift – Pesticides and nutrients that are applied on or above the land surface are moving beyond intended site of application, causing damage to adjacent land and water areas, or to human and animal health.	Airborne drift of chemicals is controlled so that damage does not occur to adjacent lands and waters, or to human and animal health. Chemicals are applied in accordance with all label directions. Federal, state and local regulations pertaining to the application of pesticides and other chemicals are followed.	Nutrient Management 590; Pest Management 595; Windbreak/Shelterbelt Establishment 380.	Visual evidence of offsite impacts from chemical drift (e.g., dead or weakened plants and animals adjacent to chemical application areas).
Airborne Odors – Objectionable odors are emanating from sources such as poultry houses, other confined livestock areas, waste lagoons, and field application of animal wastes and other organic matter.	Offensive odors are controlled or minimized so that they are not chronically objectionable to surrounding residents and communities. Reasonable odor control measures are implemented. Concerns of nearby residents are taken into consideration before field-applying animal wastes. Activities are in compliance with applicable federal, state, and local requirements.	Waste Utilization 633; Windbreak/Shelterbelt Establishment 380.	On-site observations of objectionable odors. Complaints from neighbors. NRCS Agricultural Waste Field Handbook. Managing Livestock Odor, NRCS Mid-Atlantic IRT Technical Note #8.

#### **PLANTS** RESOURCE CONSIDERATION: HEALTH AND PRODUCTIVITY **Description of Concerns and Problems** Quality Criteria for Treatment Frequently Used Practices Assessment Tools Visual evidence of poor plant **Suitability** – Plants are unsuitable for the Plants selected, or being managed, are Conservation Cover 327; intended use or are not adapted to site suitable for the intended use, and are Critical Area Planting 342; quality and quantity. conditions. As a result, the quantity and adapted to the soil and climactic Pasture and Hay Planting 512; NRCS planting guides and quality of plants for crops, forage, timber conditions of the area. Alternatively, site Tree/Shrub Establishment iobsheets. production, protective cover, wildlife habitat, conditions are improved to support the 612: Windbreak/Shelterbelt or landscaping is not sufficient to meet desired existing plant community. Productivity is Establishment 380; Wetland PLANTS database. sufficient to meet the client's objectives, yield goals or other management objectives. Restoration 657. and does not result in degradation of other resources. **Establishment and Management** – The Appropriate establishment techniques are Brush Management 314; proper techniques and timing are not used for used to meet plant needs and the client's Conservation Cover 327; objectives. Site preparation, planting, and Critical Area Planting 342; site preparation, planting, and management, resulting in poor survival, growth, and/or management is done at the recommended Forage Harvest Management productivity of desired plant species. 511; Forest Stand time and manner to enhance survival, growth, and productivity of desired Improvement 666; Pasture and Hay Planting 512; Tree/Shrub species. Establishment 612; Cropland, pasture, havland: The desired Windbreak/Shelterbelt crop is a healthy vigorous stand capable Establishment 380; Wetland of meeting at least 75% of the producer's Restoration 657. yield goals. Woodland: Forest overstory stocking levels are within acceptable levels as determined by a professional forester.

#### **PLANTS** RESOURCE CONSIDERATION: HEALTH AND PRODUCTIVITY (continued) **Description of Concerns and Problems** Frequently Used Practices Quality Criteria for Treatment Assessment Tools **Nutrients** – Plants are yellow, stunted, or Nutrient Management 590. Visual evidence of poor plant Nutrients are available to meet the needs stressed. The correct amount of plant of plants, without having adverse effects quality and quantity. nutrients is not available to meet plant needs. on other resources. A nutrient University of Maryland This results in reduced growth and low plant management plan is being followed. Cooperative Extension productivity that is not sufficient to meet guidance for crop nutrient desired yield goals or other management requirements. objectives. Soil test analysis. Pests - Insects, disease, wildlife, or Pests are managed based on threshold Brush Management 314; Pest Visual evidence of damage competition from undesirable plant species Management 595. levels (where available) to achieve the due to plant pests. (e.g., weeds, invasive species) are causing client's desired production levels. Pest University of Maryland significant damage to crops or other desired management does not result in the Cooperative Extension plant species. Productivity is not sufficient to degradation of other resources. Noxious guidance for pest meet desired yield goals or other management weeds are controlled as required by state management. objectives. law. Client records and verbal information.

#### **ANIMALS** RESOURCE CONSIDERATION: HEALTH AND PRODUCTIVITY--LIVESTOCK Description of Concerns and Problems Quality Criteria for Treatment Frequently Used Practices Assessment Tools **Food** – Food is not available in sufficient Visual evidence of insufficient Food is provided to meet the nutritional Conservation Cover 327; quantity, quality, or distribution to meet the requirements of livestock. Health, Fishpond Management 399; food, water, cover/shelter. seasonal requirements of livestock, including Pasture and Hay Planting 512; growth, reproduction, lactation, and Recommended vs. actual aquaculture species. Desired production goals Prescribed Grazing 528A. general well-being is in accordance with stocking rates for available or other management objectives are not met. accepted criteria. Water – Water is not available in sufficient Water supply is of sufficient quality and Fishpond Management 399; Client records and verbal quantity, and is properly distributed to Spring Development 574; quantity, quality, or distribution to meet the information seasonal requirements of livestock, including meet daily needs of the species of Structure for Water Control concern. Water is supplied in accordance aquaculture species. Desired production goals 587; Pond 378; Water Well with all applicable federal, state, and local or other management objectives are not met. 642; Watering Facility 614. regulations. Livestock are provided with adequate Fishpond Management 399; **Cover or Shelter** – Adequate cover or shelter is not available to protect livestock, including Pond 378; Tree/Shrub shelter to protect them from inclement aquaculture species, from the adverse effects weather. Fish are provided with water of Establishment 612; of seasonal weather extremes. Desired sufficient depth to support the desired Windbreak/Shelterbelt production goals or other management population. Establishment 380. objectives are not met. Fishpond Management 399; Visual evidence of poor Growth, Reproduction, and Condition – Poisonous plants, diseases, parasites, and Poor health of livestock, including aquaculture insects are controlled at acceptable levels Pest Management 595; animal health species, is resulting in reduced milk Prescribed Grazing 528A. so that animal health is not degraded. Client records and verbal production, egg production, weight gain, or Stocking rates are reduced to an information. acceptable level, or production facilities reproduction. are expanded, to support a healthy

population.

ANIMALS			
RESOURCE CONSIDERATION: HEALTH AND PRODUCTIVITYLIVESTOCK (Continued)			
Description of Concerns and Problems	Quality Criteria for Treatment	Frequently Used Practices	Assessment Tools
Degradation of Other Resources – High populations of livestock, including aquaculture species, are exceeding the carrying capacity of the management unit, resulting in degradation of soil, water, air, plants, or other animal communities.	Stocking rates are managed at levels that can be supported on the management unit without degrading other resources.	Fence 382; Fishpond Management 399; Prescribed Grazing 528A.	Visual evidence of degradation of soil, water, air, plants, or other animal communities.
RESOURCE CONSIDERATION: HEALTH AND PRODUCTIVITYFISH AND WILDLIFE			
Description of Concerns and Problems	Quality Criteria for Treatment	Frequently Used Practices	Assessment Tools
Food, Cover, and/or Water – Food, cover, and/or water are not available in sufficient quantity, quality, or distribution to meet the seasonal requirements of desired fish and wildlife species.	Food, cover, and water are provided as appropriate to meet the seasonal needs of the desired species.  Upland habitat has a quality rating of 0.5 or more.	Conservation Cover 327; Field Border 386; Filter Strip 393; Hedgerow Planting 422; Pond 378; Riparian Forest Buffer 391; Shallow Water Area for Wildlife 646; Tree/Shrub Establishment 612; Upland Wildlife Habitat Management 645; Wetland Creation 658; Wetland Restoration 657; Wetland Wildlife Habitat Management 644.	Visual evidence of insufficient food, cover, and/or water.  Maryland NRCS Wildlife Habitat Evaluation Worksheets.  Client records and verbal information.
Degradation of Other Resources – High populations of fish and wildlife are exceeding the carrying capacity of the management unit, resulting in degradation of soil, water, air, plants, or other animal communities.	Fish and wildlife populations are controlled to the extent feasible, in accordance with applicable federal, state, and local regulations.	Fence 382; Fishpond Management 399; Pest Management 595; Upland Wildlife Habitat Management 645; Wetland Wildlife Habitat Management 644.	Visual evidence of degradation of soil, water, air, plants, or other animal communities.  Local, state, or federal wildlife population studies and resource assessments.